

IN THE CLAIMS:

1 1. (CURRENTLY AMENDED) A method for use in a computer network having a proc-
2 ess manager and a network management station for reporting to the network management
3 station the addition of new applications or processes to the computer network, the method
4 comprising the steps of:

5 providing a configuration service layer in communicating relationship with a new
6 application or process and the process manager;

7 in response to opening the new application or process, issuing a registration ser-
8 vice request from the new application or process to the process manager through the con-
9 figuration service layer;

10 ~~establishing a method at the network management station for persistently and con-~~
11 ~~tinuously listening, at the network management station, for messages from the process~~
12 manager;

13 in response to receiving the registration service request at the process manager,
14 generating and forwarding a notification message that identifies the new application or
15 process to the network management station;

16 automatically displaying the notification message at the network management sta-
17 tion without having to close and re-start the management station, and

18 automatically and dynamically modifying the parameters associated with existing
19 or with the new application or process.

1 2. (ORIGINAL) The method of claim 1 further comprising the steps of:

2 creating a process manager window at the network management station that dis-
3 plays a list of applications and processes opened in the computer network; and

4 in response to receiving the notification message, adding the new application or
5 process to the list of applications and processes displayed in the process manager win-
6 dow.

1 3. (ORIGINAL) The method of claim 2 further comprising the step of displaying a
2 status, a start time and a location of the new application or process, within the process
3 manager window, based on information from the received notification message.

1 4. (ORIGINAL) The method of claim 3 wherein the status includes one of up, down,
2 started, not started, and unknown.

1 5. (ORIGINAL) The method of claim 4 wherein the new application or process has pa-
2 rameters associated with at least one of configure, control, diagnose and status functions,
3 the method further comprising the steps of:

4 in response to selecting the new application or process from the process manager
5 window, displaying at least one of configure, control, diagnose and status buttons associ-
6 ated with the new application or process; and

7 in response to selecting one of the displayed configure, control, diagnose and
8 status buttons, obtaining a respective configure, control, diagnose and status object from
9 the new application or process; and

10 displaying the obtained configure, control, diagnose and status object at the net-
11 work management station.

1 6. (PREVIOUSLY PRESENTED) The method of claim 1 wherein the step of modifying
2 the respective parameters of the new application or process automatically and dynami-
3 cally occurs in response to manipulations of a configure, control, diagnose and status ob-
4 ject displayed at a network management station.

1 7. (CANCELLED)

1 8. (CURRENTLY AMENDED) A computer workstation for use in a computer network
2 having at least one process manager, the workstation comprising:

3 at least one application or process;

4 a network communication facility; ~~a user interface application;~~ and
5 a configuration service layer in communicating relationship with the at least one
6 application or process and the network communications facility,
7 wherein the at least one application or process and the configuration service layer
8 cooperate to generate and issue, through the network communication facility, a registra-
9 tion service request to the at least one process manager upon opening of the at least one
10 application or process at the computer workstation, the registration service request con-
11 taining information therein to identify ~~and wherein the process manager is configured to~~
12 ~~generate and forward a notification message that identifies~~ the new application or process
13 to the at least one process manager ~~user interface application~~ in response to receiving the
14 registration service request, and thereby automatically and dynamically indicate the exis-
15 tence of modifying the parameters associated with existing or with the new application or
16 process.

1 9. (CURRENTLY AMENDED) The method of claim 1 further comprising the steps of:
2 detecting a new device added to the network; and
3 upon detecting the new device, generating a second notification-~~object~~ message;
4 and
5 passing the second notification ~~object~~-message to the network management sta-
6 tion.

1 10. (CURRENTLY AMENDED) The method of claim 9 further comprising the step of:
2 in response to receiving the second notification-~~object~~ message, displaying identi-
3 fication and configuration information ~~a name and a location~~ associated with the new de-
4 vice at the network management station.

1 11-15. (CANCELLED)

1 16. (CURRENTLY AMENDED) A system for dynamically modifying the configura-
2 tion, settings and other parameters associated with one or more applications or processes
3 running in a computer network, the system comprising:

4 means for registering with a process manager upon opening an application or pro-
5 cess;

6 means for generating a notification object upon the registration of an opened ap-
7 plication or process, wherein the notification object contains a reference identifying the
8 opened application or process;

9 means for passing the notification object to one or more user interface applica-
10 tions; and

11 means for presenting the notification object in one or more user interface applica-
12 tions without having to close and re-start the respective user interface application, and

13 means for automatically and dynamically modifying the parameters associated
14 with the opened ~~existing or with the new~~ application or process.

1 17. (PREVIOUSLY PRESENTED) A system as defined in claim 16 wherein each user
2 interface application contains one or more windows, the system further comprising:

3 means for displaying the notification object in one or more windows contained in
4 one or more user interface applications.

1 18. (PREVIOUSLY PRESENTED) A system as defined in claim 16 further comprising:

2 means for creating a process manager window that displays a list of applications
3 and processes opened in the computer network; and

4 means for adding an application or process to the list of applications and proc-
5 esses displayed in the process manager window in response to receiving the notification
6 object.

1 19. (PREVIOUSLY PRESENTED) A system as defined in claim 18 comprising:

2 means for displaying at least one of configure, control, diagnose and status but-
3 tons associated with an application or process in response to selecting the application or
4 process from the process manager window;

5 means for obtaining a respective configure, control, diagnose and status object
6 from the new application or process in response to selecting one of the displayed config-
7 ure, control, diagnose and status buttons; and

8 means for displaying the obtained configure, control, diagnose and status object.

1 20. (PREVIOUSLY PRESENTED) A system as defined in claim 16 comprising:

2 means for detecting a new device added to the network; and

3 means for issuing a service request to a user application interface upon detecting
4 the new device, wherein the service request contains a name identifying the new device.

1 21. (PREVIOUSLY PRESENTED) A system as defined in claim 20 further comprising:

1 means for receiving the service request at a user application; and

2 means for adding the name identifying the new device to a list of devices dis-
3 played in a window presented on a display screen of a workstation.

1 22-32. (CANCELLED)

2 33. (CURRENTLY AMENDED) A method for operating a workstation, comprising:

3 executing a management software on the workstation;

4 receiving a registration service request by the workstation from a server computer,

5 the registration service request ~~transmitted by a new application process, the new applica-~~
6 ~~tion process transmitting the registration service request in response to being indicating~~
7 that a new application has been added to the server computer to execute on the server

8 computer;

9 generating a configuration object related to the new application;

10 receiving a remotely provided applet specific to the new application, the remotely
11 provided applet referencing the configuration object and including controls for modifying
12 parameters of the new application; and

13 displaying the applet in a user interface of the management software, the user in-
14 terface configured to pass parameter modifications made with the applet to the new ap-
15 plication, to dynamically change the parameters of the new application.

16 ~~identifying by the management software executing on the workstation that the~~
17 ~~new application process is executing on the server computer, and~~
18 ~~— automatically and dynamically modifying the parameters associated with existing~~
19 ~~or with the new application process.~~

1 34. (PREVIOUSLY PRESENTED) The method as in claim 33, further comprising:
2 receiving the registration service request over a computer network from the server
3 computer.

1 35. (PREVIOUSLY PRESENTED) The method as in claim 33, further comprising:
2 automatically displaying, in response to receiving the registration service request,
3 an indication that the new application process is executing on the server computer with-
4 out having to close and re-start the management software.

1 36. (CURRENTLY AMENDED) A computer workstation, comprising:
2 means for executing a management software on the workstation;
3 means for receiving a registration service request by the workstation from a server
4 computer, the registration service request ~~transmitted by a new application process, the~~
5 ~~new application process transmitting the registration service request in response to being~~
6 indicating that a new application has been added to the server computer to execute on the
7 server computer;
8 means for generating a configuration object related to the new application;

9 means for receiving a remotely provided applet specific to the new application,
10 the remotely provided applet referencing the configuration object and including controls
11 for modifying parameters of the new application; and

12 means for displaying the applet in a user interface of the management software,
13 the means for displaying configured to pass parameter modifications made with the app-
14 let to the new application, to dynamically change the parameters of the new application.

15 ~~means for identifying by the management software executing on the workstation~~
16 ~~that the new application process is executing on the server computer, and~~

17 ~~means for automatically and dynamically modifying the parameters associated~~
18 ~~with existing or with the new application process.~~

1 37. (PREVIOUSLY PRESENTED) The workstation as in claim 36, further comprising:

2 means for receiving the registration service request over a computer network from
3 the server computer.

1 38. (PREVIOUSLY PRESENTED) The workstation as in claim 36, further comprising:

2 means for automatically displaying, in response to receiving the registration ser-
3 vice request, an indication that the new application process is executing on the server
4 computer without having to close and re-start the management software.

1 39. (CURRENTLY AMENDED) A computer workstation, comprising:

2 a management software executing on the workstation;

3 a network communication facility configured to receive a registration service re-
4 quest ~~by the workstation~~ from a server computer, the registration service request trans-
5 mitted to indicate that a new application has been by a new application process, the new
6 application process transmitting the registration service request in response to being
7 added to the server computer to execute on the server computer, the network communica-
8 tion facility further configured to generate a control object related to the new application
9 and to receive a remotely provided applet specific to the new application, the remotely

10 provided applet referencing the control object and including controls for modifying pa-
11 rameters of the new application;

12 wherein the management software is further configured to display the applet and
13 configured to pass parameter modifications made with the applet to the new application,
14 to dynamically change the parameters of the new application.

15 and —

16 ~~the management software identifying, in response to receiving the registration~~
17 ~~service request, that the new application process is executing on the server computer and~~
18 ~~automatically and dynamically modifying the parameters associated with existing or with~~
19 ~~the new application process.~~

1 40. (CURRENTLY AMENDED) The workstation as in claim 39, further comprising:

2 ~~a~~ the network communications facility to receive the registration service request
3 over a computer network from the server computer.

1 41. (CURRENTLY AMENDED) The workstation as in claim 39, further comprising:

2 the management software configured to automatically displaying, in response to
3 receiving the registration service request, an indication that the new application process is
4 executing on the server computer without having to close and re-start the management
5 software.

1 42. (CURRENTLY AMENDED) A computer readable media, comprising:

2 said computer readable media having instructions written thereon for execution on
3 a processor for, ~~the practice of a method for operating a workstation, the method having~~
4 the steps of,

5 ~~executing a management software on the workstation;~~

6 receiving a registration service request by the workstation from a server computer,
7 the registration service request ~~transmitted by a new application process, the new applica-~~

8 ~~tion process transmitting the registration service request in response to being indicating~~
9 ~~that a new application has been added to the server computer to execute on the server~~
10 ~~computer;~~

11 ~~generating a configuration object related to the new application;~~

12 ~~receiving a remotely provided applet specific to the new application, the remotely~~
13 ~~provided applet referencing the configuration object and including controls for modifying~~
14 ~~parameters of the new application; and~~

15 ~~displaying the applet in a user interface of the management software, the user in-~~
16 ~~terface configured to pass parameter modifications made with the applet to the new ap-~~
17 ~~plication, to dynamically change the parameters of the new application.~~

18 ~~identifying by the management software executing on the workstation that the~~
19 ~~new application process is executing on the server computer, and~~

20 ~~— automatically and dynamically modifying the parameters associated with existing~~
21 ~~or with the new application process.~~

1 43-51. (CANCELLED)

1 52. (NEW) A computer workstation for use in configuring one or more devices in a
2 computer network, the computer workstation comprising:

3 a user interface application configured to display a listing of the one or more de-
4 vices, the listing of the one or more devices automatically updated in response to addition
5 of devices to the computer network, absent re-start of the user interface application, the
6 user interface application to permit selection of a particular device; and

7 a configuration service layer configured to, in response to selection of the particu-
8 lar device, generate a control object related to the particular device, the configuration ser-
9 vice layer further configured to receive a remotely provided applet specific to the particu-

10 lar device, the remotely provided applet referencing the control object and including con-
11 trols for modifying parameters of the device,

12 wherein the user interface application is further configured to display the applet
13 and pass parameter modifications made with the applet to the device, to dynamically
14 change the parameters of the device.

1 53. (NEW) The computer workstation of claim 52, wherein the user interface application
2 is configured to be automatically updated with notifications provided by a topology
3 server.

1 54. (NEW) The computer workstation of claim 53, wherein the user interface applica-
2 tion is configured to be automatically updated by Common Object Request Broker Archi-
3 tecture (CORBA) notifications.

1 55. (NEW) The computer workstation of claim 52, wherein the listing comprises a plu-
2 rality of portions, each portion corresponding to one of the one or more devices, each
3 portion including an identification field that identifies the device and a configuration field
4 that indicates that parameters of the device may be dynamically modified.

1 56. (NEW) The computer workstation of claim 52, wherein the applet is provided by a
2 device management process of a remote workstation.

1 57. (NEW) The computer workstation of claim 52, wherein the applet is configured to
2 indicate the state of a plurality of interfaces of the device, and to permit modification of
3 the state of each interface, to active or deactivate each interface.

1 58. (NEW) The computer workstation of claim 52, wherein parameter modifications are
2 passed to the device as Simple Network Management Protocol (SNMP) messages.

1 59. (NEW) A computer workstation for use in configuring one or more applications exe-
2 cuting on servers in a computer network, the computer workstation comprising:

3 a user interface application configured to display a listing of the one or more ap-
4 plications, the listing of the one or more applications configured to be automatically up-
5 dated in response to execution of new applications on the servers, absent re-start of the
6 user interface application, the user interface application to permit selection of a particular
7 application; and

8 a configuration service layer configured to, in response to selection of the particu-
9 lar application, generate a configuration object related to the particular application, the
10 configuration service layer further configured to receive a remotely provided applet spe-
11 cific to the particular application, the remotely provided applet referencing the configura-
12 tion object and including controls for modifying parameters of the application,

13 wherein the user interface application is further configured to display the applet
14 and pass parameter modifications made with the applet to the application, to dynamically
15 change the parameters of the application.

1 60. (NEW) The computer workstation of claim 59, wherein the user interface applica-
2 tion is configured to be automatically updated with notifications provided by the one or
3 more applications.

1 61. (NEW) The computer workstation of claim 60, wherein the user interface applica-
2 tion is configured to be automatically updated by Common Object Request Broker Archi-
3 tecture (CORBA) notifications.

1 62. (NEW) The computer workstation of claim 59, wherein the listing comprises a plu-
2 rality of portions, each portion corresponding to one of the one or more applications, each

3 portion including an application name field, an application status field, and an application
4 location field.

1 63. (NEW) The computer workstation of claim 52, wherein each portion further in-
2 cludes a command field that indicates that parameters of the application may be dynami-
3 cally modified.

1 64. (NEW) The computer workstation of claim 59, wherein parameter modifications are
2 passed to the application as Simple Network Management Protocol (SNMP) messages.

1 65. (NEW) The computer workstation of claim 59, wherein the applet is provided by the
2 server executing the particular application.

1 66. (NEW) A method for configuring one or more devices in a computer network, the
2 method comprising the steps of:
3 displaying a listing of the one or more devices;
4 updating automatically the listing of the one or more devices in response to addi-
5 tion of devices to the computer network;
6 selecting a particular device of the one or more devices;
7 in response to selection of the particular device, generating a control object re-
8 lated to the particular device;
9 receiving a remotely provided applet specific to the particular device, the re-
10 motely provided applet referencing the control object and including controls for modify-
11 ing parameters of the device; and
12 displaying the applet and passing parameter modifications made with the applet to
13 the device, to dynamically change the parameters of the device.

1 67. (NEW) The method of claim 66, wherein the step of updating is performed in re-
2 sponse to receiving notifications from a topology server.

1 68. (NEW) The method of claim 66, further comprising the steps of:
2 indicating the state of a plurality of interfaces of the device; and
3 permitting modification of the state of each interface to active or deactivate each
4 interface.

1 69. (NEW) The method of claim 66, wherein the applet is provided by a device man-
2 agement process of a remote workstation.

1 70. (NEW) A method for configuring one or more applications executing on servers in a
2 computer network, the method comprising the steps of:
3 displaying a listing of the one or more applications;
4 updating automatically the listing of the one or more applications in response to
5 execution of new applications on the servers;
6 selecting a particular application of the one or more applications;
7 in response to selection of the particular application, generating a configuration
8 object related to the particular application;
9 receiving a remotely provided applet specific to the particular application, the re-
10 motely provided applet referencing the control object and including controls for modify-
11 ing parameters of the application; and
12 displaying the applet and passing parameter modifications made with the applet to
13 the application, to dynamically change the parameters of the application.

1 71. (NEW) The method of claim 70, wherein the step of updating is performed in re-
2 sponse to receiving notifications from the one or more applications.

1 72. (NEW) The method of claim 70, wherein the applet is provided by the server execut-
2 ing the particular application.

1 73. (NEW) A computer readable medium containing executable program instructions
2 for configuring one or more devices in a computer network, the executable program in-
3 structions comprising program instructions for:

- 1 displaying a listing of the one or more devices;
- 2 updating automatically the listing of the one or more devices in response to addi-
3 tion of devices to the computer network,
- 4 selecting a particular device of the one or more devices;
- 5 in response to selection of the particular device, generating a control object re-
6 lated to the particular device;
- 7 receiving a remotely provided applet specific to the particular device, the re-
8 motely provided applet referencing the control object and including controls for modify-
9 ing parameters of the device; and
- 10 displaying the applet and passing through parameter modifications made with the
11 applet to the device, to dynamically change the parameters of the device.

1 74. (NEW) The computer readable medium of claim 73, wherein the executable pro-
2 gram instructions for updating further comprising program instructions for:

- 3 receiving notifications from a topology server.

1 75. (NEW) A computer readable medium containing executable program instructions
2 for configuring one or more applications executing on servers in a computer network, the
3 executable program instructions comprising program instructions for:

- 1 displaying a listing of the one or more applications;
- 2 updating automatically the listing of the one or more applications in response to
3 execution of new applications on the servers;
- 4 selecting a particular application of the one or more applications;
- 5 in response to selection of the particular application, generating a configuration
6 object related to the particular application;

7 receiving a remotely provided applet specific to the particular application, the re-
8 motely provided applet referencing the control object and including controls for modify-
9 ing parameters of the application; and
10 displaying the applet and passing through parameter modifications made with the
11 applet to the application, to dynamically change the parameters of the application.

1 76. (NEW) The computer readable medium of claim 75, wherein the executable program
2 instructions for updating further comprising program instructions for:
3 receiving notifications from the one or more applications.